	Application No.	Applicant(s)
Notice of Allowability	10/743,907	KANESHIGE, SUSUMU ( \)
	Examiner	Art Unit
	Tamai I.E. Karl	2834
The MAILING DATE of this communication appearable claims being allowable, PROSECUTION ON THE MERITS IS (wherewith (or previously mailed), a Notice of Allowance (PTOL-85) of NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGOR of the Office or upon petition by the applicant. See 37 CFR 1.313 and the communication appearable communication app	OR REMAINS) CLOSED in this apport of the second of the sec	olication. If not included will be mailed in due course. THIS
1. This communication is responsive to 4/14/2005.		
2. X The allowed claim(s) is/are <u>1-21</u> .		
3.	been received. been received in Application No uments have been received in this r  f this communication to file a reply of ENT of this application.  ted. Note the attached EXAMINER's reason(s) why the oath or declarate be submitted. be submitted. on's Patent Drawing Review ( PTO-S Amendment / Comment or in the O  Ad(c)) should be written on the drawing header according to 37 CFR 1.121(c) it of BIOLOGICAL MATERIAL in	national stage application from the complying with the requirements  S AMENDMENT or NOTICE OF tion is deficient.  948) attached  office action of the back) of the complying with the front (not the back) of the complying in the submitted. Note the
<ul> <li>Attachment(s)</li> <li>1.  Notice of References Cited (PTO-892)</li> <li>2.  Notice of Draftperson's Patent Drawing Review (PTO-948)</li> <li>3.  Information Disclosure Statements (PTO-1449 or PTO/SB/08 Paper No./Mail Date 4/14/2004</li> <li>4.  Examiner's Comment Regarding Requirement for Deposit of Biological Material</li> </ul>	6. ☐ Interview Summary Paper No./Mail Dat 3), 7. ☐ Examiner's Amendm	e

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## Reasons for Allowance

The following is an examiner's statement of reasons for allowance: the prior art 1. does not teach a DC motor having a permanent magnet stator with circumferentially arranged poles and a rotor with a plurality of coils wound around respective cores and electrically connected to commutator segments which provide current to coils via brushes, where the poles have surfaces opposing to the rotor and the surfaces of two circumferentially adjoining poles have different polarities so that the polarity of the pole surfaces opposing each coil alternate during each period of supply of the current to the coil and each pole defines a reduced magnetic flux density area and an increased magnetic flux density area with the reduced density area extending along an angular range from a first position where the supply of current to the coils is initiated to a second position where the polarities of the pole surfaces alternate and with the increased density area extending along an angular range from the second position to a third position where the supply of the current to the coils is interrupted, and where the magnetic flux density produced around each coil by a magnetic force of each pole when each coil is positioned within at least a part of the angular range of the increased density area is smaller than the magnetic flux density produced around each coil by a magnetic force of each pole when each coil is positioned within at least a part of the angular range of the reduced density area.

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Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

2. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Karl I.E. Tamai whose telephone number is (571) 272 - 2036.

The examiner can be normally contacted on Monday through Friday from 8:00 am to 4:00 pm. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Darren Schuberg, can be reached at (571) 272 - 2044. The facsimile number for the Group is (571) 273 - 8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Karl I Tamai PRIMARY PATENT EXAMINER September 13, 2005

KARL TAMAI PRIMARY EXAMINER